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Displaying Smart Phone Data in the Desktop Using Firebase

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Abstract: The expansion of mobile phone technology is accompanied by the world. As the number of users is increasing day by day, services are also growing and starting with simple regular handsets which were just for making phone calls; mobiles have changed our lives and have turn out to be part of it. Now they are not used just for making calls but they have countless uses and can be used as a camera, music player, tablet PC etc. so, Android is playing vital role in day to day lives but currently in our workplace like MNC companies are not allowing to use cell phones since the data is being transferred illegitimately. Due to this, the user is not capable to know any imperative or urgent information. The main reason of mounting this system is to share device-oriented information like call logs, battery status, and SMS information anywhere, and anytime as of a server using Web Application. Simply we can view our smart phone data in our desktop.

Keywords:Android,Application,Mounting,Firebase,Desktop.

Introduction:

For 15 years operating system has developed many things. Starting from black and white phones to recent smart phones or mini computers, mobile OS has come far away. Particularly for smart phones, Mobile OS has very much evolved from Palm OS in1996 to Windows pocket PC in 2000 then to Blackberry OS and Android. One of the most extensively used mobile OS these days is android does a software bunch include not only operating system but also middleware and key applications. In Palo Alto of California Android Inc was founded, U.S. by Nick sears, Rich miner, Andy Rubin and Chris White in 2003. Later on Android Inc. was acquired by Google in 2005. Later than unique liberate there have been number of updates in the original version of Android. Android is a dominant Operating System underneath a huge number of applications in Smart Phones. These applications make life more at ease and superior for the users. Hardware's that support Android is mostly based on ARM architecture platform. Present days MNC companies are not allowing using smart phones in the workplace because the data is being transfer illegitimately. Due to this, the user is unable to know any important or vital information. The main principle of mounting this system is to share device-oriented information i.e., call log, battery status, SMS information anywhere, and at anytime from a server using Web Application. The main intention this project is to offer smart communication between mobile and our desktop (PC).Android is the flexible one which supports our ideas.

Methodology:

Actually in previous days, some information such as missed calls and battery, messages information, in the cell phones are referred to as device-oriented data's .However, such information is correlated to a user. For example, if the user works in escort and cannot carry their mobile due to safety measures then the user is unable to analysis the information. And it has many disadvantages like increases employee dissatisfaction, Lack of communication, forcibly avoid the user privacy. But our idea is, The application is based on sharing information such as missed calls, battery percentage and message from the Android device to web application, whenever the battery drains out or any missed calls or a messages come all this information will be Updated on the server system (firebase) and the user can view that information using the web application from anywhere and at anytime. It allows users to sight the data from smart phone to desktop from anywhere and at any time. It has 24/7 accessibility and Scalable too. It also more secure, user has to give login. All projects are possible given limitless resources and inestimable time. But the improvement of software is inundated by the scarcity of resources and tricky release rates. It is both needed and cautious to estimate the possibility of a project at the initial possible time. Three key considerations are involved in the possibility analysis. This process is to establish the benefits and investments that are expected

from a candidate system and contrast them with costs. If benefits be more important than costs, then the decision is made to intend and apply the system. If not further validation or alterations in projected system will have to be made if it is to have a chance of being accepted. This is a continuing effort that improves in precision at each phase of the system life cycle. Nominal feasibility centers on the existing computer system and to what extent it can support the proposed addition. If the financial plan is a grave restraint then the project is judged not possible. The system is easy to understand and does not need any extra refined training. As the systems have been built by focused on the Graphical User Interface Concept, the application can also be handled with no trouble with a beginner. On the whole time that is necessary to coach the users upon the system is less than half an hour. The System has been added with some features of menu-driven and button interaction methods, which makes the user the head as they starts running through the environment. The net time the client should focus is on the installation time. Compare to the manual system management can make any tale just by single click. In manual system it is very tricky to keep up chronological data which become easier in this system. Time consumed to add novel records or to sight the reports is very less compared to manual system. So this project is possible in this peak of view. No special investment need to manage the tool. No specific training is necessary for employees to use the tool. Investment needed only once at the time of installation. The software used in this project is freeware so the cost of mounting the tool is least and hence the overall cost. Hardware Requirements: For Android, Quad core processor, 2 GB RAMS, 16 GB Hard Disk. For Web Application, Dual core processor, 4 GB RAM, 500 GB Hard Disk. Software Requirements are JDK 1.7, Android Studio, Firebase server, Tomcat Server Net Beans, CSS, and HTML.

Working principle:

Here we are using two applications that is Android application and web application. Android application should be install in cell phone. User should register the application with their email id and set password for security. User login to the application using login credentials and activate the services to send mobile data such as battery information, missed call information, and unread messages data and web application should be install in our desktop. For database storage we are using firebase which is low cost. Firebase stores all the smart phone data's like messages, battery percentage information's etc. Web application which we installed in our desktop collects all the information from the firebase server. When the user open that application in the desktop by giving login credentials. User can view the messages, missed calls, battery status in their workplace itself.

System design:

Software mode sits at the technological core of the PC code engineering methodology and is applied in spite of the event model and house of application. Vogue is that the break among the event part for any intended product or system. The designer's target is to provide a model or diagram of associate entity which will later on be built. Once system insist are like and analyze, system. Vogue is that the first of the three technological activities -design, code and takes a glimpse at that is necessary to form and verify code. The importance's are declared with one word "Quality". Vogue is that the place, where quality is fostered in code development. Vogue provides North Yankee country with representations of code which will assess for quality. Design is that the unaccompanied manner that we are going to accurately decode a client's look around into a finished product or system. Code vogue could be groundwork for all the PC code manufacturing steps that go after. While not a tough vogue we've got an tendency to risk building connect rickety system – one which will be hard to envisage, one whose quality cannot be assess until the last stage. For the period of vogue, progressive modification of knowledge arrangement, program arrangement and procedural details unit developed evaluation and acknowledged System. Vogue is viewed from either technological or project management perception. Commencing the technological purpose of browse, vogue is comprised of four behavior system vogue, field. vogue, procedural vogue and interface vogue.

System module:

User Module: Here, user using android mobile device and install our android app in the mobile. The user register to application with their email id and set password for security purposes and login to the application using login credentials and make active the services to send mobile information such as battery information, missed call information, and unread messages data.

Android Application: Here, we intend an android application that has actions like new user registration, user login, and start services. This application validates

the user data, collects the data from the mobile applications and transfer data to firebase server.

Web Application: Here, we develop web application to illustrate the mobile data in the desktop. In this application we can able to collects the information from firebase server system through internet. This application shows the data like missed call information, message information, and Battery Information.

Firebase Module: Here, we organize our application, and created the firebase database to store the data. This server offers the database service and free hosting services.

Result:

Displaying Smart Phone Data, this idea consumes our time and provides secure Access. Easy to use and user can view data from their workplace at anytime.

Conclusion:

This application, “Displaying Smart Phone Data” is based on allocation information such as Messages, Battery percentage, and miscall data’s from android device to web application, whenever the battery drain or any miscalls or when a messages come, all this information will be modernized on the server system and the user can analysis that information using the web application from anyplace.

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